

PERSONNEL DATA

Elmer A. Carlson
2825-98th. Ave. N.E., Bellevue, Washington 98004
Telephone: 454-8520
Date of Birth: Dec. 30, 1911
Place of Birth: Minneapolis, Minnesota
Social Security No. 473-01-2354

Education: University of Minnesota
BCE Degree, June 1939

Registered Professional Engineer:

In Tennessee, since 1947 as Civil Engineer
In Minnesota, since 1951 as Civil Engineer
In Washington, since 1954 as Civil and Structural Engineer

Partial Employment Record:

Aug. 1962 to Dec. 1973: Principal Office Engineer
Associated Engineers & Contractors, Inc.
4242-22nd. Ave. West
Seattle, Washington 98199
Reference:
Mr. P.A. Stewart, President
Tel. 283-5225

March 1957 to Aug. 1962: Associate
Wisbeck & Konzen, Architects & Engineers
10827 N.E. 2nd. Place
Bellevue, Washington 98004
Reference:
Mr. Allan Konzen, Partner
Tel. 455-3436

June 1951 to March 1957: Structural Engineer
John Graham & Co. Architects & Engineers
Seattle, Washington

2825-98th. Ave. N.E.
Bellevue, Washington 98004
Tel. 454-8520

Gentlemen:

I appreciate the opportunity to introduce myself and to amplify my experience record which is outlined on the attached sheet.

Previous to 1947 my experience includes:

1. Extensive land surveys, traverse calculations, and property descriptions with U.S. Soil Conservation Service and with the U.S. Fish and Wildlife Service; in Oklahoma, Minnesota, Georgia, Florida, and Massachusetts.
2. Construction Field Office Engineer with M.W. Kellogg Co.; on Ammonia Plant construction at Sterlington, La., and on Oil Refinery construction at Lake Charles, La. My duties included structural and civil design and drafting, and detailing of structural steel, rebar, and process piping.
3. Construction Field Office Engineer with Kellogg Corporation at Oak Ridge, Tennessee on Gaseous Diffusion Plant construction.

At Magney-Tusler & Setter, my duties included civil design of a small airport, together with structural and civil design for hospitals, schools, churches, and industrial and commercial buildings. During my last year there, I was in charge of all civil and structural design.

At John Graham & Co., the projects were similar, and I was employed as a project structural job captain. In that capacity I was in charge of and participated in the structural design and preparation of design drawings for numerous such projects. Among these were the Bonneville Office Building, Portland, Oregon; additional stories expansion of Bon Marche Store in Seattle; Frederick & Nelson Store in Bellevue; and Pacific National Bank in Bellevue..

With Wisbeck & Konzen, my duties were similar. Among the projects in which I participated was the design of Moveable Antenna Covers for ten sites in Alaska. After design I coordinated prototype testing, procurement, and shipping of the covers for our customer, and supervision of installation under the Corps of Engineers. I also participated in the design of a prototype Radar Support Tower for the U.S. Air Force and prepared complex installation and parts manuals per Air Force specifications.

With Associated Engineers & Contractors, Inc., my duties were varied, some of which are described below:

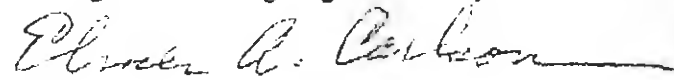
Design and supervision of Radar Support Tower prototype tests.

Supervision of procurement, manufacture, inspection and shipping of 104 towers, broken down, to various sites in the United States and foreign countries, over a period of several years. This involved coordination of Air Force inspection and simultaneous shipment of parts from San Francisco and Seattle.

Coordination of procurement, fabrication, testing, mobilization, and installation of deep water Acoustic Arrays for the University of Washington Applied Physics Laboratory under contract to U.S. Navy at St. Croix, Virgin Islands.

In recent years as company emphasis shifted to heavy construction, I was in charge of Civil and Structural Engineering related to prosecution of work, such as concrete forms, temporary bridge, dock, caisson, and shoring design, plant layout, and construction details, and assisting with quantity take-offs for bid preparation. I prepared mass diagrams and job schedules, calculated job end quantities for payment, and assisted in job end negotiations. I managed an in-office IBM System 3 Computer installation including design, programming, and installation of systems for payroll, job cost reports, accounts receivable, accounts payable, equipment status and depreciation, prepaid interest, critical path method schedule analysis and update, and miscellaneous accounting and engineering applications.

Very truly yours,



Elmer A. Carlson